

201SV

1/8" / 3 mm Straight Hand Tool Series



The lightweight **201SV** has ultra-low vibration and is quiet at less than 65 dBA sound level. Designed to work reliably in industrial applications, the **201SV** is rated for nonstop work: reaching governed constant high speeds of **90,000 RPM** and **0.2 HP (0.15 kW)**. Running off of 90 psi (6.2 bar) air, the **201SV** requires no maintenance or oil. Work safer and longer, you don't need to press hard on the workpiece to get the signature benefits of improved precision, faster cutting action and a finer finished surface quality from the **201SV**.

201SV Dimensions

All fittings, couplings, and hoses must have a minimum of 3/16" internal diameter.

A	6.16" (156.5 mm)	B	Ø 0.625" (15.875 mm)
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201SV Part Numbers

1/8"		3 mm	
Speed	Part Number	Speed	Part Number
40,000 RPM	32140	40,000 RPM	32141
50,000 RPM	32150	50,000 RPM	32151
65,000 RPM	32160	65,000 RPM	32161
90,000 RPM	32170	90,000 RPM	32171
1/8" with brake		3 mm with brake	
Speed	Part Number	Speed	Part Number
40,000 RPM	32144	40,000 RPM	32145
50,000 RPM	32154	50,000 RPM	32155
65,000 RPM	32164	65,000 RPM	32165
90,000 RPM	32174	90,000 RPM	32175

201SV Specifications

Speed	40,000 RPM	50,000 RPM	65,000 RPM	90,000 RPM
Power Rating	0.15 HP (0.11 kW)		0.2 HP (0.15 kW)	
Inlet Air Pressure	90 psi (6.2 bar)			
Air Consumption Idle	3 CFM (1.41 L/s)	4 CFM (1.89 L/s)	5 CFM (2.36 L/s)	
Air Consumption Working Flow	4.8 CFM - 7 CFM (2.27 L/s - 3.3 L/s)			
Air Hoses and Fittings Minimum Size	3/16" internal diameter			
Sound Level	Less Than 67 dBA			
Max Shank Capacity	1/8" (3 mm)			
Hand Tool Weight	6 oz (0.17 kg)			

Accessories

Model	Part Number
Low Flow Filter	30002
Low Flow Filter / Regulator	30001
5' Air Supply Assembly w/Fitting for SV Models	32107

201SV Vibration Statistics

Time to reach Exposure Action Value 2.5 m/s ² A(8)	128 hours, 15 minutes
Time to reach Exposure Limit Value 5 m/s ² A(8)	513 hours
Vibration Magnitude	0.62 m/s ² r.m.s

- ### Equipment Included
- 201SV Hand Tool
 - Collet System (1/8" or 3 mm standard)
 - Collet Wrenches
 - Rear Exhaust
 - 5' Air Supply Assembly with Slide Valve
 - 1/4" NPT Air Supply Fitting

Standard Equipment

1/8" or 3 mm collet standard, other sizes are available.
 Oil-free 90 psi / 6.2 bar clean, dry air supply required.

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Supply is subject to Air Turbine Technology Inc. (ATT) distributor policies and upon terms and conditions contained in the ATT distributor agreement. Subject to availability, change of specifications, price and terms without notice. Always use a 0.3 micron filter/extractor and check specified air flow. 6.2 bar / 90 psi clean, dry, oil-free air only. Use eye protection and follow safety instructions. All specifications approximate. All tools are tested and rated to be within 10% of designated speed. © 2026 Air Turbine Technology, Inc. All rights reserved.

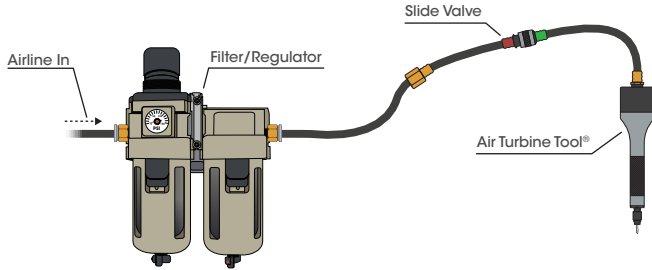
Air Turbine Tools® Quick User Notes and Setup Guide

Straight Hand Tool Series - 201SV



Initial Installation

Install a new dedicated clean air line from a filter/regulator to your Air Turbine Tool® as shown below. A 0.3 micron filter/regulator/extractor combination is a **highly recommended** accessory to operate Air Turbine Tools to eliminate all impurities in your air supply.



Air flow restrictions (such as air leaks and obstructions) will cause underpowered performance and drag your tool through the material, damaging the bearings. **Some fittings with nominal internal dimensions may have an ID passage that is smaller than stated and restrict air flow and power.** It only takes one fitting with an internal diameter that is too small to reduce air flow and power of your Air Turbine Tool®.

Air Requirements

Ensure there is sufficient volume of clean compressed air flow at **90 psi (6.2 bar) with 4.8 CFM - 7 CFM (2.27 L/s - 3.3 L/s)** to maintain working air consumption. Our governor increases air flow volume on demand to keep rotation at the high speed when your tool starts to cut. **Air pressure and flow volume must therefore be available on demand and remain constant with no drop over time or when cutting.**

Avoid pressure below 90 psi (6.2 bar), which causes the tool to be dragged through the material, causing rapid bearing wear and underpowered performance. Do not use more than 100 psi (6.9 bar) pressure which will burst the turbine power producer.

Air pressure and flow must remain constant with no drops under cutting load. Insufficient flow will cause the rotation of your tool to slow or stop suddenly, damaging the bearings.

If a drop in psi (bar) occurs below 90 psi (6.2 bar), your compressor may not have enough CFM (L/s) to power the Air Turbine Tool® or there is a flow restriction in the air line.

Maintenance

Your Air Turbine Tool® must be run at least 10 minutes every 30 days from manufacture date to maintain optimal performance. **Run at least 10 minutes before initial use.** This will ensure the bearing lubrication does not solidify. The airline must be impeccably clean with no coupling or hose smaller than 3/16" so that air flow volume is unrestricted.

Purge the airline of contamination before each use.

A 0.3 micron filter/regulator/extractor combination is a **highly recommended** accessory to operate Air Turbine Tools® to eliminate all impurities in your air supply. Refer to the accessories table on the other side of this sheet for filters/regulators/extractors that are compatible with the 201SV.

Contamination of your turbine components will damage your turbine and require repair. **Filter elements need to be changed periodically and the regulator and extractor must be drained in regular maintenance cycles.**



WARNING
Always use proper eye protection while operating your Air Turbine Tool®.



WARNING
Do not clamp Air Turbine Tool® hand tools into a fixture. This will cause distortion in the bearing race, damaging the tool and voiding the warranty.

Operation

Always monitor the air pressure gauge during operation of your Air Turbine Tool®. All tools are tested and rated to be within 10% of the designated speed.

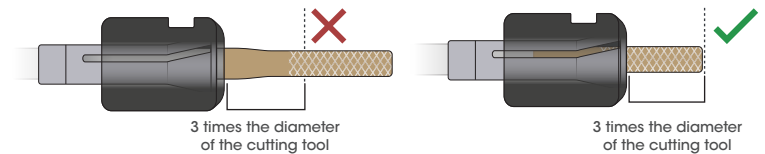
Do not try to cut too aggressively. You will overload your turbine causing your cutting tool to stall or drag in the material. Dragging your tool on the work or a sudden stop will cause stress to the bearings and force the grease out, causing premature failure.

Select The Correct Cutting Tool

Ensure your cutting tool is rated for the rotational speed you are using. **Your tool must be balanced and truly concentric to operate at the high speed of Air Turbine Tools®.**

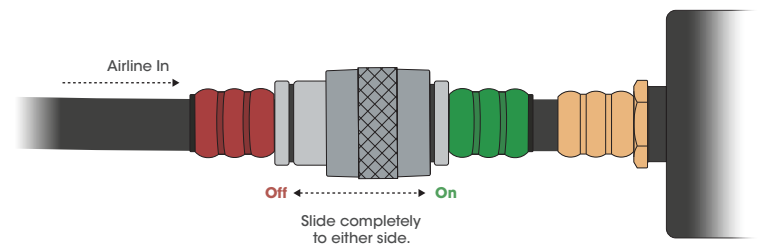
Incorrect tool selection results in unbalanced rotation or overloading, which will result in stress on the bearings and premature failure.

The stick-out extension length of the cutting tool from your collet should be no more than 3 times the diameter of the cutting tool from the collet.



Properly Turning Your Tool On and Off

Slide the Slide valve open and closed. The green 'On' position is always closest to your 201SV, while the red 'Off' position is the switch position furthest away from the 201SV. **Ensure that the Slide valve is always fully opened or closed as shown below.**



Never Stall Your Tool

A sudden stop or stalling your hand tool will cause stress to the bearings and force the grease out of them.

Operate The Tool Safely

Comply with general industry safety & health regulations, part 1910 and 2206 OSHA, etc. Federal, state and local regulations and laws in your country. Ensure that you operate your Air Turbine Tool® in compliance with safety code for portable air tools - ANSI 186.1, etc.



Scan to consult full user instructions.

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